Thursday, 4/12/2007 9:33:29 AM

User:

Kim Johnston

Process Sheet

Drawing Name

Part Number

Drawing Number

Project Number

Customer

: CU-DAR001 Dart Helicopters Services

Job Number **Estimate Number** : 31782

: 10179

P.O. Number

:NA

This Issue

Previous Run

Written By

Comment

: 4/12/2007

S.O. No. : NA

Prsht Rev. First Issue

Checked & Approved By

: NA

: 28949

Type : SMALL /MED FAB

Est Rev:E Now on Waterjet 06-10-15 JLM

: Est: D 04.05.06 Reformat KJ/RF **Drawing Revision** : D : NA Material

: D2144

: N/A

. D2144 REV. D

Due Date

: 5/10/2007 20 Um:

: HINGE BRACKET, GAS SPRING

Additional Product

Job Number:



Seq. #:

Machine Or Operation:

Description:

304/316 .063 Sheet

1.0

M304S16GA

Comment: Qty.:

0.0945 sf(s)/Unit Total: 304/316 .063 Sheet 16GA

1.8900 sf(s)

M19052 Batch:

FLOW WATER JET

07/05/08

SAD

2.0 WATER JET

Comment: FLOW WATER JET 1-Cut as per Dwg D2144

Dwg Rev:_ Prog Rev:_

2-Deburr if necessary

SAD 07/05/08

20

Each

3.0 QC2 INSPECT PARTS AS THEY COME OFF MACHINE



Comment: INSPECT PARTS AS THEY COME OFF MACHINE

SECOND CHECK



Comment: SECOND CHECK

QC8



5.0

4.0

SMALL FAB 1

SMALL & MEDIUM FAB RESOURCE 1



X X

Comment: SMALL & MEDIUM FAB RESOURCE 1

Deburr if necessary

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGE	S	-				
DATE	STEP	PROCEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		·						
Part No):	PAR #: Fault Category:	NCR:	: Yes	No DQ	A:	Date:	

QA: N/C Closed: ____ Date: __

NCR: WORK ORDER NON-CONFORMAL					ONFORMANC	CE (NCR)					
		Description of NC	×	Corrective Action Section B			Verification	Approval	Annoval		
DATE	STEP	Section A	Initial Chief Eng	Action D	Description ef Eng	Sign & Date	Section C	Chief Eng	Approval QC Inspecto		
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		7.									
	*	•	0								

NOTE: Date & initial all entries

Thursday, 4/12/2007 9:33:29 AM Date: Kim Johnston User: **Process Sheet** Drawing Name: HINGE BRACKET, GAS SPRING Customer: CU-DAR001 Dart Helicopters Services Job Number: 31782 Part Number: D2144 Job Number: Seq. #: Description: **Machine Or Operation:** BRAKE NO NC BRAKE Comment: NC BRAKE 07/05/23 (20) Form as per Dwg D2144 INSPECT WORK TO CURRENT STEP 7.0 Comment: INSPECT WORK TO CURRENT STEP 8.0 LARGE FABRICATION RESOURCE 1 Comment: LARGE FAB RESOURCE 1 1- Weld corner as per Dwg D2144 & QSI 004 VISUAL WELDING INSPECTION 9.0 QC9 Comment: VISUAL WELDING INSPECTION INSPECT WORK TO CURRENT STEP 10.0 QC5 Comment: INSPECT WORK TO CURRENT STEP POWDER COATING 11.0 m 103141 Comment: POWDER COATING Powder Coat White Gloss (Ref: 4.3.5.1) as per QSI 005 4.3 INSPECT POWDER COAT/CHEMICAL CO 12.0 QC3 Comment: INSPECT POWDER COAT 13.0 PACKAGING 1 PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: 5t 210

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		WORK ORDER C	HANGES				
		Ву	Date	Qty	Approval Chief Eng / Prod Mar	Approval QC Inspector	
	*						
				<i>a.</i>			
	STEP	STEP PROC		STEP PROCEDURE CHANGE By			Approval

art No:	PAR #:	_ Fault Category:	NCR: Yes (No	DQA:	Date: <u>07/00/</u> 3
			QA: N/C	losed:	Date:

	V	ORK ORDI	ER NON-CONFORMANO	CE (NCR)			
	Description of NC Corrective Action Section B		Verification Ar	Approval	Approval		
STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
	STEP	STEP Description of NC	STEP Description of NC Section A Initial	STEP Description of NC Section A Initial Action Description	STEP Description of NC Section A Initial Action Description Sign &	STEP Section A Initial Action Description Sign & Section C	STEP Description of NC Section A Section B Initial Action Description Sign & Verification Section C Chief Eng

NOTE: Date & initial all entries

Date: Ųser: Thursday, 4/12/2007 9:33:29 AM

Kim Johnston

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: HINGE BRACKET, GAS SPRING

Job Number: 31782

Part Number: D2144

Job Number:



Seq. #:

Machine Or Operation:

Description:

14.0

QC21

FINAL INSPECTION/W/O RELEASE







Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



LA 845,30

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W/O:			WORK ORDER	CHANGES				
DATE	STEP	PR	OCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	:	PAR #:	Fault Category:	NCR: Yes	No E)QA:	_ Date: _	ě
				QA:	N/C Clo	sed:	_ Date: _	
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NCR: WORK ORDER NON-CONFORMANCE (NCR										
		Description of NC		Corrective Action Section B			Approval	il Approval		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Chief Eng	QC Inspecto		
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		•		8						
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						a				

NOTE: Date & initial all entries



HINGE BRACKET	(4)	98.10.08
זוורב		DATE
D2144 SHEET	A	華
DRAWING NO.	MAP ROVED	СНЕСКЕР
HAWKESBURY, ONTARIO, CANADA	7	9.0
DART AEROSPACE LTD	OKAMA BY	DESIGN
	ממונו סע	10000

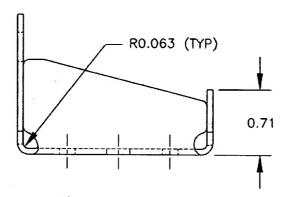


98.10.08 HINGE BRACKET 1:1 A 95.03.17 NEW ISSUE C 96.06.05 FLAT PATTERN LAYOUT ADDED D 98.10.08 UPDATED DIMS AFTER BEND (TSR A917)		DATE	C C C C C C C C C C C C C C C C C C C	DRAWING NO. REV. D D2144 SHEET 1 OF 2 TITLE SCALE
		80.10.86		HINGE BRACKET
		Α	95.03.17	NEW ISSUE
	r	С	96.06.05	FLAT PATTERN LAYOUT ADDED
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AEROSPACE I	
7	1.16
NOI	1.03 INCONTROLLED COPY ENGINEERING ENGINEERING ENGINEERING TOLERANCES ARE PER DART QSI 018 WORK ORDER WELD PER DART QSI 004

2.375

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RETURN OF SHOP COPIES OF SHOP COPIES

0.505

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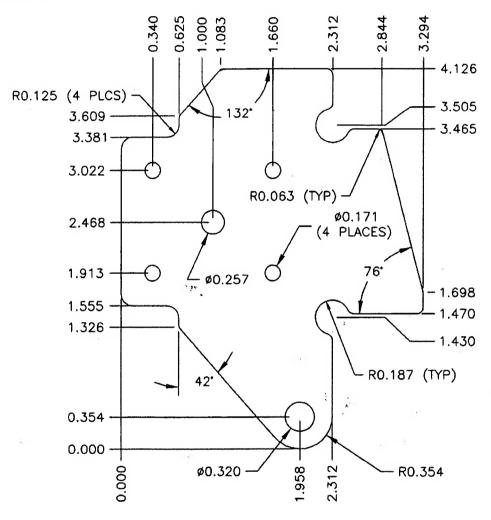
(2 PLACES)





DESIGN BW	DRAWN, BY	DART AEROSPACE L' HAWKESBURY, ONTARIO, CANADA	TD
CHECKED	APPROVED	DRAWING NO.	REV. D
	147	D2144 s	HEET 2 OF 2
DATE	V	TITLE	SCALE
98.10.08		HINGE BRACKET	1:1

RELEASED 98.10.15 KBD



D2144 FLAT PATTERN

SHOPCOPY

F-REPURP TO

E ENTINEERING

UNCORTHOLDEDCEOP

班 __

MATERIAL: AISI 304/316-2B SS, 0.063 THICK TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE ALL DIMENSIONS ARE IN INCHES

DART AEROSPACE LTD	Work Order:	3/782
Description: Hinge Bracket	Part Number:	DZ144
Inspection Dwg: 172/44 Rev: A		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

		c	irst Article		Prototy	pe	
Inspection Sheet Drawing Dimension		Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Α	3.381	4/-0.010	3.385	1		height gauge	
	3.022	1/2 0.010	3.016			height gauge	
	2.468	+4 0.010	2.466			height gauge	
L i	1.913	+6 0.010	1,910			height sauge/	cry
	1.555	+4 0.000	1.550			height sauge	
	4.126	+4 0.010	4.130			Ver	
Ģ.	3.465	+/- D.010	3,460	/		height sauge	
, ;	0.340	+1- 0.010	0.346		Ĺ	height sauge	
1	6.625	+4 0.010	0.619			height godge	
·	1.000	+6 0.010	0.997			Vern	
K	1.083	+1- 0.010	1.082	/		Neight gauge	
	1,660	42 0.0LD	1.666			Vern	
1/4	2.312	+1-0.010	2.318			height goge	
N	2.844	+4 0.010	2.850		<u></u>	Vens	
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þ	Ø 0.257	+0.006	\$0.258			Vern	
Q	\$ 0.171	+0.00 3	00.173			Jery	
R	00320	10.000	Ø0.320			Venn	
S	0.354	+1-0.010	0.351			Vern	
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Mea	sured by:	10 Aug	udited by:		Pro	totype Approval	: N/A

Measured by:	SAD	Audited by:	Prototype Approval:	N/A
Date:	07/06/08	Date: 07-05.08	Date:	N/A
Rev Date	Change		Revised b	y Approved
1		The second secon	KI/RE	

